

Peak Air Quality Statistics for the Six Principal Pollutants by Metropolitan Statistical Area, 1999

Metropolitan Statistical Area	1990 Population	CO 8-hr (ppm)	Pb QMax ($\mu\text{g}/\text{m}^3$)	NO_2 AM (ppm)	O_3 1-hr (ppm)	O_3 8-hr (ppm)	PM_{10} Wtd AM ($\mu\text{g}/\text{m}^3$)	PM_{10} 2nd Max ($\mu\text{g}/\text{m}^3$)	SO_2 AM (ppm)	SO_2 24-hr (ppm)
AKRON, OH	657,575	3	0.01	ND	0.12	0.10	23	69	0.011	0.065
ALBANY, GA	112,561	ND	ND	ND	ND	ND	26	60	ND	ND
ALBANY-SCHENECTADY-TROY, NY	861,424	4	ND	IN	0.11	0.09	ND	ND	0.003	0.016
ALBUQUERQUE, NM	589,131	5	ND	0.016	0.10	0.08	35*	123*	ND	ND
ALLENTOWN-BETHLEHEM-EASTON, PA	595,081	3	0.07	0.017	0.13	0.11	ND	36*	0.009	0.037
ALTOONA, PA	130,542	2	ND	0.013	0.11	0.09	ND	ND	0.007	0.030
ANCHORAGE, AK	226,338	8	ND	ND	ND	ND	15	73	ND	ND
ANN ARBOR, MI	490,058	ND	ND	ND	0.11	0.09	ND	ND	ND	ND
APPLETON-OSHKOSH-NEENAH, WI	315,121	ND	ND	ND	0.11	0.09	ND	ND	ND	ND
ASHEVILLE, NC	191,774	ND	ND	ND	0.10	0.08	21	41	ND	ND
ATLANTA, GA	2,959,950	4	0.05	0.024	0.16	0.13	35	72	0.005	0.023
ATLANTIC-CAPE MAY, NJ	319,416	ND	ND	ND	0.12	0.10	22	46	0.003	0.009
AUGUSTA-AIKEN, GA-SC	415,184	ND	0.00	0.005	0.11	0.09	IN	49	IN	IN
AUSTIN-SAN MARCOS, TX	846,227	1	ND	0.006	0.11	0.10	ND	ND	ND	ND
BAKERSFIELD, CA	543,477	4	0.00	0.025	0.14	0.11	59	141	IN	IN
BALTIMORE, MD	2,382,172	5	0.00	0.024	0.15	0.11	29	61	0.006	0.020
BANGOR, ME	91,629	ND	ND	ND	0.09	0.08	17	32	ND	ND
BATON ROUGE, LA	528,264	5	0.06 ^a	0.019	0.12	0.10	34	78	0.006	0.025
BEAUMONT-PORT ARTHUR, TX	361,226	ND	ND	0.011	0.10	0.08	ND	ND	0.007	0.051
BELLINGHAM, WA	127,780	ND	ND	ND	0.06	0.05	14	26	IN	IN
BENTON HARBOR, MI	161,378	ND	ND	ND	0.11	0.10	ND	ND	ND	ND
BERGEN-PASSAIC, NJ	1,278,440	4	ND	ND	0.13	0.10	34	73	0.005	0.020
BILLINGS, MT	113,419	6	ND	ND	ND	ND	21	69	0.007	0.037
BILOXI-GULFPORT-PASCAGOULA, MS	312,368	ND	ND	0.006	0.11	0.10	IN	38	0.003	0.024
BIRMINGHAM, AL	840,140	5	ND	0.010	0.13	0.10	28	108	IN	IN
BISMARCK, ND	83,831	ND	ND	ND	ND	ND	ND	ND	0.006	0.071
BOISE CITY, ID	295,851	6	ND	0.021	ND	ND	36	101	ND	ND
BOSTON, MA-NH	3,227,707	4	0.03	0.030	0.12	0.09	30	65	0.007	0.040
BOULDER-LONGMONT, CO	225,339	4	ND	ND	0.10	0.08	IN	56	ND	ND
BRAZORIA, TX	191,707	ND	ND	ND	0.16	0.11	ND	ND	ND	ND
BREMERTON, WA	189,731	ND	ND	ND	ND	ND	15	33	ND	ND
BRIDGEPORT, CT	443,722	3	ND	0.018	0.14	0.11	19	41	0.006	0.023
BROCKTON, MA	236,409	ND	ND	IN	0.10	0.08	ND	ND	ND	ND
BROWNSVILLE-HARLINGEN-SAN BENITO, TX	260,120	3	0.01	ND	0.08	0.07	22*	59*	0.002	0.004
BUFFALO-NIAGARA FALLS, NY	1,189,288	3	0.02	0.022	0.10	0.09	IN	48	0.010	0.052
BURLINGTON, VT	151,506	2	ND	0.017	ND	ND	ND	ND	0.002	0.008
CANTON-MASSILLON, OH	394,106	2	ND	ND	0.11	0.09	24	57	0.007	0.028
CASPER, WY	61,226	ND	ND	ND	ND	ND	IN	52	ND	ND
CEDAR RAPIDS, IA	168,767	2	ND	ND	0.10	0.08	IN	54	0.005	0.071
CHAMPAIGN-URBANA, IL	173,025	ND	ND	ND	0.11	0.09	23	47	0.002	0.010
CHARLESTON-NORTH CHARLESTON, SC	506,875	4	0.01	0.010	0.10	0.08	21	47	0.002	0.011
CHARLESTON, WV	250,454	IN	ND	ND	0.13	0.10	IN	45	0.010	0.046
CHARLOTTE-GASTONIA-ROCK HILL, NC-SC	1,162,093	4	0.02	0.018	0.13	0.11	30	60	0.004	0.013
CHARLOTTESVILLE, VA	131,107	ND	ND	ND	ND	ND	IN	37	ND	ND
CHATTANOOGA, TN-GA	424,347	ND	ND	ND	0.12	0.10	29	57	ND	ND
CHEYENNE, WY	73,142	ND	ND	ND	ND	ND	15	30	ND	ND
CHICAGO, IL	7,410,858	5	0.06	0.032	0.11	0.10	40	120	0.009	0.044
CHICO-PARADISE, CA	182,120	4	0.00	0.015	0.11	0.09	29	139	ND	ND
CINCINNATI, OH-KY-IN	1,526,092	3	0.01	0.022	0.12	0.10	31	60	0.008	0.030
CLARKSVILLE-HOPKINSVILLE, TN-KY	169,439	ND	ND	ND	0.12	0.09	23	39	0.005	0.016
CLEVELAND-LORAIN-ELYRIA, OH	2,202,069	4	0.15 ^b	0.025	0.12	0.10	42	106	0.011	0.062
COLORADO SPRINGS, CO	397,014	5	0.01	0.019	0.08	0.06	22	80	0.004	0.020
COLUMBIA, SC	453,331	4	0.04	0.014	0.12	0.09	24	148	0.004	0.017

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COLUMBUS, GA-AL	260,860	ND	1.04 ^c	ND	0.11	0.10	24	49	ND	ND
COLUMBUS, OH	1,345,450	3	0.05 ^d	ND	0.14	0.10	27	86	0.004	0.015
CORPUS CHRISTI, TX	349,894	ND	ND	ND	0.10	0.09	35*	88*	0.002	0.019
DALLAS, TX	2,676,248	3	0.82 ^e	0.021	0.14	0.11	32*	61*	0.004	0.033
DANBURY, CT	193,597	ND	ND	ND	0.15	0.11	ND	ND	0.004	0.024
DAVENPORT-MOLINE-ROCK ISLAND, IA-IL	350,861	ND	ND	ND	0.10	0.08	44	177	0.004	0.014
DAYTON-SPRINGFIELD, OH	951,270	3	0.01	ND	0.13	0.10	24	53	0.005	0.018
DAYTONA BEACH, FL	399,413	ND	ND	ND	0.09	0.08	21	56	ND	ND
DECATUR, AL	131,556	ND	ND	ND	0.10	0.09	IN	43	0.002	0.011
DECATUR, IL	117,206	ND	ND	ND	0.10	0.09	ND	ND	0.006	0.027
DENVER, CO	1,622,980	5	0.08	0.02	0.11	0.08	37	141	0.003	0.012
DES MOINES, IA	392,928	4	ND	ND	0.08	0.07	IN	76	ND	ND
DETROIT, MI	4,266,654	4	0.10	0.018	0.12	0.10	36	126	0.009	0.053
DOOTHAN, AL	130,964	ND	ND	ND	ND	ND	IN	IN	ND	ND
DOVER, DE	110,993	ND	ND	ND	0.12	0.10	ND	ND	ND	ND
DULUTH-SUPERIOR, MN-WI	239,971	2	ND	ND	0.08	0.07	25	71	ND	ND
DUTCHESS COUNTY, NY	259,462	ND	ND	ND	0.12	0.09	ND	ND	ND	ND
EL PASO, TX	591,610	8	0.15	0.028	0.11	0.07	63	129	0.003	0.016
ELKHART-GOSHEN, IN	156,198	ND	ND	ND	0.09	0.08	ND	ND	ND	ND
ELMIRA, NY	95,195	ND	ND	ND	0.09	0.08	ND	ND	0.003	0.015
ENID, OK	56,735	ND	ND	0.008	ND	ND	ND	ND	ND	ND
ERIE, PA	275,572	6	ND	0.015	0.11	0.10	ND	54*	0.010	0.043
EUGENE-SPRINGFIELD, OR	282,912	5	0.02	ND	0.08	0.07	ND	ND	ND	ND
EVANSVILLE-HENDERSON, IN-KY	278,990	4	ND	0.016	0.11	0.10	26	60	0.007	0.056
FARGO-MOORHEAD, ND-MN	153,296	ND	ND	0.007	0.07	0.07	21	65	0.001	0.003
FAYETTEVILLE, NC	274,566	5	ND	ND	0.12	0.10	24	42	0.005	0.007
FLAGSTAFF, AZ-UT	101,760	ND	ND	ND	0.09	0.08	ND	ND	ND	ND
FLINT, MI	430,459	ND	0.01	ND	0.11	0.10	IN	IN	0.003	0.011
FLORENCE, AL	131,327	ND	ND	ND	ND	ND	ND	ND	0.003	0.017
FLORENCE, SC	114,344	ND	0.01	ND	ND	ND	ND	ND	ND	ND
FORT COLLINS-LOVELAND, CO	186,136	5	ND	ND	0.09	0.07	16	36	ND	ND
FORT LAUDERDALE, FL	1,255,488	5	0.02	0.011	0.10	0.08	19	33	0.003	0.015
FORT MYERS-CAPE CORAL, FL	335,113	ND	ND	ND	0.10	0.08	19	32	ND	ND
FORT PIERCE-PORT ST. LUCIE, FL	251,071	ND	ND	0.010	0.08	0.07	20	39	ND	ND
FORT WAYNE, IN	456,281	3	ND	ND	0.10	0.09	IN	IN	ND	ND
FORT WORTH-ARLINGTON, TX	1,361,034	3	ND	0.017	0.15	0.10	22*	44*	ND	ND
FRESNO, CA	755,580	8	0.00	0.024	0.15	0.11	47	130	ND	ND
GADSDEN, AL	99,840	ND	ND	ND	ND	ND	30	66	ND	ND
GAINESVILLE, FL	181,596	ND	ND	ND	0.10	0.08	21	38	ND	ND
GALVESTON-TEXAS CITY, TX	217,399	ND	ND	0.005	0.18	0.12	23*	43*	0.007	0.040
GARY, IN	604,526	3	0.08	0.019	0.12	0.10	35	166	0.007	0.032
GOLDSBORO, NC	104,666	ND	ND	ND	ND	ND	20	48	ND	ND
GRAND JUNCTION, CO	93,145	5	ND	ND	ND	ND	20	52	ND	ND
GRAND RAPIDS-MUSKEGON-HOLLAND, MI	937,891	4	0.00	ND	0.12	0.10	21	54	0.001	0.006
GREAT FALLS, MT	77,691	4	ND	ND	ND	ND	ND	ND	0.003	0.011
GREELEY, CO	131,821	3	ND	ND	0.09	0.07	18	47	ND	ND
GREEN BAY, WI	194,594	ND	ND	ND	0.10	0.09	ND	ND	0.003	0.011
GREENSBORO—WINSTON-SALEM—HIGH POINT	1,050,304	4	ND	0.016	0.13	0.10	25	57	0.005	0.020
GREENVILLE, NC	107,924	ND	ND	ND	0.11	0.09	IN	43	ND	ND
GREENVILLE-SPARTANBURG-ANDERSON, SC	830,563	5	0.01	0.017	0.12	0.10	26	52	0.003	0.009
HAGERSTOWN, MD	121,393	ND	ND	ND	0.11	0.09	ND	ND	ND	ND
HAMILTON-MIDDLETOWN, OH	291,479	ND	0.01	ND	0.12	0.10	31	85	0.007	0.024
HARRISBURG-LEBANON-CARLISLE, PA	587,986	4	ND	0.018	0.13	0.10	ND	ND	0.005	0.021
HARTFORD, CT	1,157,585	6	ND	0.018	0.16	0.11	18	81	0.004	0.019

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HICKORY-MORGANTON-LENOIR, NC	292,409	ND	ND	ND	0.12	0.09	25	49	0.005	0.007
HONOLULU, HI	836,231	2	ND	0.004	0.05	0.05	15	41	0.001	0.004
HOUMA, LA	182,842	ND	ND	ND	0.12	0.09	ND	ND	ND	ND
HOUSTON, TX	3,322,025	4	0.02	0.024	0.20	0.12	45*	116*	0.005	0.019
HUNTINGTON-ASHLAND, WV-KY-OH	312,529	1	ND	0.016	0.12	0.10	39	89	0.009	0.026
HUNTSVILLE, AL	293,047	4	ND	ND	0.11	0.09	24	52	ND	ND
INDIANAPOLIS, IN	1,380,491	3	0.12 ^f	0.018	0.11	0.10	27	53	0.007	0.024
JACKSON, MS	395,396	5	ND	ND	0.11	0.08	25	53	0.002	0.007
JACKSON, TN	90,801	ND	ND	ND	ND	ND	IN	43	ND	ND
JACKSONVILLE, FL	906,727	4	0.02	0.016	0.10	0.08	28	59	0.004	0.036
JACKSONVILLE, NC	149,838	ND	ND	ND	ND	ND	IN	45	ND	ND
JAMESTOWN, NY	141,895	ND	ND	ND	0.10	0.09	14	40	0.008	0.060
JANESVILLE-BELOIT, WI	139,510	ND	ND	ND	0.11	0.09	ND	ND	ND	ND
JERSEY CITY, NJ	553,099	6	ND	0.026	0.14	0.11	35	56	0.008	0.030
JOHNSON CITY-KINGSPORT-BRISTOL, TN-VA	436,047	3	0.12	0.016	0.11	0.09	ND	ND	0.010	0.044
JOHNSTOWN, PA	241,247	3	0.09	0.015	0.11	0.09	ND	ND	0.009	0.025
JOPLIN, MO	134,910	ND	ND	ND	ND	ND	34	105	ND	ND
KALAMAZOO-BATTLE CREEK, MI	429,453	ND	ND	ND	0.10	0.09	IN	50	ND	ND
KANSAS CITY, MO-KS	1,582,875	5	0.01	0.015	0.12	0.08	40	118	0.003	0.011
KENOSHA, WI	128,181	ND	ND	ND	0.13	0.10	ND	ND	ND	ND
KNOXVILLE, TN	585,960	4	0.00	0.003	0.13	0.11	43	148	0.009	0.056
LAFAYETTE, LA	344,853	ND	ND	ND	0.09	0.08	ND	ND	ND	ND
LAKE CHARLES, LA	168,134	ND	ND	0.005	0.13	0.09	ND	ND	0.004	0.015
LAKELAND-WINTER HAVEN, FL	405,382	ND	ND	ND	0.10	0.08	22	50	0.007	0.019
LANCASTER, PA	422,822	2	ND	0.015	0.13	0.10	ND	ND	0.005	0.021
LANSING-EAST LANSING, MI	432,674	ND	ND	ND	0.10	0.09	ND	ND	ND	ND
LAREDO, TX	133,239	4	0.02	ND	0.08	0.07	ND	ND	ND	ND
LAS CRUCES, NM	135,510	4	ND	0.012	0.10	0.08	45	88	0.001	0.008
LAS VEGAS, NV-AZ	852,737	8	ND	ND	0.10	0.08	56	281	ND	ND
LAWRENCE, MA-NH	353,232	ND	ND	ND	0.09	0.07	ND	ND	0.005	0.021
LAWTON, OK	111,486	2	ND	ND	0.09	0.08	ND	ND	ND	ND
LEWISTON-AUBURN, ME	93,679	ND	ND	ND	ND	ND	IN	45	0.004	0.016
LEXINGTON, KY	405,936	2	ND	0.013	0.11	0.09	23	54	0.008	0.020
LIMA, OH	154,340	ND	ND	ND	0.11	0.09	17	32	0.003	0.013
LINCOLN, NE	213,641	6	ND	ND	0.06	0.05	ND	ND	ND	ND
LITTLE ROCK-NORTH LITTLE ROCK, AR	513,117	4	ND	0.011	0.11	0.09	32*	70*	0.002	0.005
LONGVIEW-MARSHALL, TX	193,801	ND	ND	0.007	0.13	0.11	ND	ND	0.002	0.011
LOS ANGELES-LONG BEACH, CA	8,863,164	11	0.09	0.051	0.14	0.10	56	119	0.005	0.019
LOUISVILLE, KY-IN	948,829	5	ND	0.014	0.12	0.10	28	60	0.007	0.032
LOWELL, MA-NH	280,578	4	ND	ND	ND	ND	ND	ND	ND	ND
LUBBOCK, TX	222,636	ND	ND	ND	ND	ND	18*	42*	ND	ND
MACON, GA	290,909	ND	ND	ND	0.13	0.11	IN	53	ND	ND
MADISON, WI	367,085	2	ND	ND	0.10	0.09	21	48	IN	IN
MANCHESTER, NH	50,000	ND	ND	IN	ND	ND	16	41	IN	IN
MANSFIELD, OH	174,007	ND	ND	ND	ND	ND	23	53	ND	ND
MCALLEN-EDINBURG-MISSION, TX	383,545	ND	ND	ND	0.09	0.08	ND	ND	ND	ND
MEDFORD-ASHLAND, OR	146,389	6	0.00	ND	0.08	IN	IN	93	ND	ND
MELBOURNE-TITUSVILLE-PALM BAY, FL	398,978	ND	ND	ND	0.09	0.08	19	52	ND	ND
MEMPHIS, TN-AR-MS	1,007,306	5	0.65 ^g	0.025	0.13	0.10	27	64	0.006	0.028
MERCED, CA	178,403	ND	ND	0.012	0.13	0.11	IN	IN	ND	ND
MIAMI, FL	1,937,094	4	ND	0.017	0.11	0.08	24	44	0.001	0.003
MIDDLESEX-SOMERSET-HUNTERDON, NJ	1,019,835	3	0.18 ^h	0.019	0.15	0.11	ND	ND	0.005	0.016
MILWAUKEE-WAUKESHA, WI	1,432,149	2	ND	0.022	0.12	0.10	27	60	0.004	0.024
MINNEAPOLIS-ST. PAUL, MN-WI	2,538,834	5	0.47 ⁱ	0.022	0.09	0.08	35	88	0.004	0.030

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MOBILE, AL	476,923	ND	ND	ND	0.12	0.09	25	84	0.008	0.041
MODESTO, CA	370,522	6	0.00	0.022	0.11	0.09	43	137	ND	ND
MONMOUTH-OCEAN, NJ	986,327	3	ND	ND	0.14	0.11	ND	ND	ND	ND
MONROE, LA	142,191	ND	ND	ND	0.10	0.08	ND	ND	0.003	0.010
MONTGOMERY, AL	292,517	ND	ND	ND	0.11	0.09	24	48	ND	ND
MUNCIE, IN	119,659	ND	0.76 ⁱ	ND	ND	ND	ND	ND	ND	ND
MYRTLE BEACH, SC	144,053	ND	0.01	ND	ND	ND	ND	ND	ND	ND
NAPLES, FL	152,099	ND	ND	ND	ND	ND	17	30	ND	ND
NASHUA, NH	168,233	5	ND	IN	0.10	0.09	17	40	0.005	0.016
NASHVILLE, TN	985,026	5	1.02 ^k	0.019	0.12	0.10	32	74	0.005	0.035
NASSAU-SUFFOLK, NY	2,609,212	5	ND	0.024	0.13	0.11	16	41	0.007	0.038
NEW BEDFORD, MA	175,641	ND	ND	ND	0.13	0.10	ND	ND	ND	ND
NEW HAVEN-MERIDEN, CT	530,180	3	ND	0.026	0.15	0.11	20	76	0.007	0.027
NEW LONDON-NORWICH, CT-RI	290,734	ND	ND	ND	0.13	0.10	17	36	IN	IN
NEW ORLEANS, LA	1,285,270	3	0.08	0.022	0.12	0.09	27	60	0.005	0.023
NEW YORK, NY	8,546,846	5	0.10	0.041	0.15	0.11	IN	46	0.013	0.045
NEWARK, NJ	1,915,928	7	ND	0.042	0.12	0.10	33	67	0.007	0.023
NEWBURGH, NY-PA	335,613	ND	0.20 ^l	ND	0.12	0.09	ND	ND	ND	ND
NORFOLK-VIRGINIA BEACH-NEWPORT NEWS,V	1,443,244	5	ND	0.017	0.14	0.10	19	50	0.007	0.022
OAKLAND, CA	2,082,914	5	0.00	0.022	0.14	0.09	26	94	0.003	0.020
OCALA, FL	194,833	ND	ND	ND	0.10	0.08	ND	ND	ND	ND
OKLAHOMA CITY, OK	958,839	4	ND	0.014	0.10	0.08	ND	ND	0.004	0.009
OLYMPIA, WA	161,238	5	ND	ND	0.08	0.06	IN	35	ND	ND
OMAHA, NE-IA	639,580	9	0.81 ^m	ND	0.09	0.08	43	131	0.001	0.003
ORANGE COUNTY, CA	2,410,556	6	ND	0.035	0.11	0.08	37	73	0.002	0.005
ORLANDO, FL	1,224,852	3	ND	0.012	0.10	0.08	26	49	0.002	0.007
OWENSBORO, KY	87,189	1	ND	0.011	0.10	0.09	25	63	0.006	0.024
PANAMA CITY, FL	126,994	ND	ND	ND	ND	ND	IN	50	ND	ND
PARKERSBURG-MARIETTA, WV-OH	149,169	ND	ND	ND	0.12	0.10	28	72	0.013	0.058
PENSACOLA, FL	344,406	ND	ND	IN	0.11	0.09	23	56	0.004	0.029
PEORIA-PEKIN, IL	339,172	5	0.02	ND	0.10	0.08	23	52	0.007	0.036
PHILADELPHIA, PA-NJ	4,922,175	5	0.84 ⁿ	0.032	0.15	0.11	22	59*	0.010	0.034
PHOENIX-MESA, AZ	2,238,480	8	ND	0.041	0.12	0.09	60	219	0.003	0.012
PITTSBURGH, PA	2,384,811	4	0.08	0.029	0.13	0.10	37	121	0.015	0.089
PITTSFIELD, MA	88,695	ND	ND	ND	0.09	0.08	ND	ND	ND	ND
POCATELLO, ID	66,026	ND	ND	IN	ND	ND	30	168	0.007	0.046
PONCE, PR	3,442,660	ND	ND	ND	ND	ND	39	86	ND	ND
PORTLAND, ME	221,095	ND	ND	ND	0.11	0.08	23	61	0.005	0.014
PORTLAND-VANCOUVER, OR-WA	1,515,452	7	0.18	IN	0.09	0.07	16	63	ND	ND
PORTSMOUTH-ROCHESTER, NH-ME	223,271	ND	ND	0.010	0.12	0.09	16	34	0.004	0.019
PROVIDENCE-FALL RIVER-WARWICK, RI-MA	1,134,350	4	ND	0.024	0.13	0.09	29	61	0.007	0.026
PROVO-OREM, UT	263,590	6	ND	0.024	0.11	0.08	32	91	ND	ND
PUEBLO, CO	123,051	ND	ND	ND	ND	ND	IN	51	ND	ND
RACINE, WI	175,034	3	ND	ND	0.11	0.09	ND	ND	ND	ND
RALEIGH-DURHAM-CHAPEL HILL, NC	855,545	5	ND	ND	0.13	0.11	23	49	0.005	0.009
RAPID CITY, SD	81,343	ND	ND	ND	ND	ND	28	108	ND	ND
READING, PA	336,523	3	0.84 ^o	0.021	0.13	0.10	ND	55*	0.008	0.027
REDDING, CA	147,036	ND	ND	ND	0.11	0.09	IN	42	ND	ND
RENO, NV	254,667	7	ND	IN	0.10	0.08	55	116	ND	ND
RICHLAND-KENNEWICK-PASCO, WA	150,033	ND	ND	ND	ND	ND	IN	86	ND	ND
RICHMOND-PETERSBURG, VA	865,640	2	ND	0.02	0.13	0.10	19	36	0.005	0.017
RIVERSIDE-SAN BERNARDINO, CA	2,588,793	4	0.05	0.039	0.16	0.13	72	134	0.002	0.009
ROANOKE, VA	224,477	4	ND	0.012	0.11	0.09	IN	64	0.003	0.010
ROCHESTER, MN	106,470	ND	ND	ND	ND	ND	IN	ND	ND	ND

Peak Air Quality Statistics for the Six Principal Pollutants by Metropolitan Statistical Area, 1999 (continued)

Metropolitan Statistical Area	1990 Population	CO 8-hr (ppm)	Pb QMax ($\mu\text{g}/\text{m}^3$)	NO_2 AM (ppm)	O_3 1-hr (ppm)	O_3 8-hr (ppm)	PM_{10} Wtd AM ($\mu\text{g}/\text{m}^3$)	PM_{10} 2nd Max ($\mu\text{g}/\text{m}^3$)	SO_2 AM (ppm)	SO_2 24-hr (ppm)
ROCHESTER, NY	1,062,470	3	ND	ND	0.10	0.09	ND	ND	0.007	0.041
ROCKFORD, IL	329,676	4	ND	ND	0.09	0.08	ND	ND	ND	ND
ROCKY MOUNT, NC	133,235	ND	ND	ND	0.10	0.09	IN	IN	0.005	0.007
SACRAMENTO, CA	1,340,010	6	0.00	0.021	0.14	0.11	33	143	0.004	0.012
ST. CLOUD, MN	190,921	3	ND	ND	ND	ND	IN	IN	ND	ND
ST. JOSEPH, MO	83,083	ND	ND	ND	ND	ND	IN	99	0.003	0.013
ST. LOUIS, MO-IL	1,836,302	4	6.75^p	0.027	0.13	0.10	44	117	0.009	0.059
SALEM, OR	278,024	6	ND	ND	0.08	0.07	ND	ND	ND	ND
SALINAS, CA	355,660	2	ND	0.010	0.08	0.06	29	76	ND	ND
SALT LAKE CITY-OGDEN, UT	1,072,227	6	0.08	0.028	0.11	0.08	45	113	0.004	0.010
SAN ANTONIO, TX	1,324,749	4	ND	0.025	0.11	0.09	ND	46*	ND	ND
SAN DIEGO, CA	2,498,016	5	0.00	0.026	0.11	0.09	52	112	0.003	0.016
SAN FRANCISCO, CA	1,603,678	5	0.00	0.021	0.10	0.06	26	69	0.002	0.006
SAN JOSE, CA	1,497,577	6	0.00	0.026	0.12	0.08	29	94	ND	ND
SAN JUAN-BAYAMON, PR	1,836,302	8	0.02	IN	0.08	0.05	38	84	0.003	0.015
SAN LUIS OBISPO-ATASCADERO-PASO ROBLE	217,162	3	ND	0.013	0.09	0.08	27	82	0.005	0.027
SANTA BARBARA-SANTA MARIA-LOMPOC, CA	369,608	4	0.00	0.022	0.10	0.08	29	54	0.002	0.003
SANTA CRUZ-WATSONVILLE, CA	229,734	1	ND	0.005	0.08	0.07	31	75	0.001	0.002
SANTA FE, NM	117,043	2	ND	ND	ND	ND	13	31	ND	ND
SANTA ROSA, CA	388,222	3	ND	0.014	0.10	0.08	18	64	ND	ND
SARASOTA-BRADENTON, FL	489,483	3	ND	0.007	0.11	0.09	24	42	0.004	0.017
SAVANNAH, GA	258,060	ND	ND	ND	0.11	0.08	27	59	0.003	0.018
SCRANTON—WILKES-BARRE—HAZLETON, PA	638,466	3	ND	0.015	0.12	0.10	ND	ND	0.007	0.023
SEATTLE-BELLEVUE-EVERETT, WA	2,033,156	6	0.05 ^q	0.019	0.09	0.07	16	50	IN	IN
SHARON, PA	121,003	ND	ND	ND	0.11	0.09	ND	ND	0.007	0.039
SHEBOYGAN, WI	103,877	ND	ND	ND	0.13	0.09	ND	ND	ND	ND
SHREVEPORT-BOSSIER CITY, LA	376,330	ND	ND	ND	0.11	0.09	IN	41	0.002	0.006
SIOUX CITY, IA-NE	115,018	ND	ND	ND	ND	ND	28	73	ND	ND
SIOUX FALLS, SD	139,236	ND	ND	ND	0.07	IN	22	44	ND	ND
SOUTH BEND, IN	247,052	ND	ND	IN	0.11	0.09	IN	49	ND	ND
SPOKANE, WA	361,364	6	ND	ND	0.07	0.07	26	86	ND	ND
SPRINGFIELD, IL	189,550	2	ND	ND	0.10	0.08	20	45	0.006	0.059
SPRINGFIELD, MO	264,346	3	ND	0.013	0.10	0.08	18	34	0.004	0.039
SPRINGFIELD, MA	587,884	6	ND	0.022	0.11	0.09	30	66	0.005	0.024
STAMFORD-NORWALK, CT	329,935	4	ND	ND	0.14	0.11	29	49	0.006	0.026
STATE COLLEGE, PA	123,786	ND	ND	ND	0.10	0.09	ND	ND	ND	ND
STEUBENVILLE-WEIRTON, OH-WV	142,523	5	ND	ND	0.11	0.09	34	98	0.016	0.065
STOCKTON-LODI, CA	480,628	6	0.00	0.024	0.13	0.09	36	123	ND	ND
SYRACUSE, NY	742,177	3	ND	ND	0.10	0.09	ND	ND	0.002	0.015
TACOMA, WA	586,203	7	ND	ND	0.09	0.07	17	56	IN	IN
TALLAHASSEE, FL	233,598	ND	ND	ND	0.09	0.08	19	55	ND	ND
TAMPA-ST. PETERSBURG-CLEARWATER, FL	2,067,959	5	1.02 ^r	0.016	0.12	0.09	35	81	0.008	0.060
TERRE HAUTE, IN	147,585	ND	ND	ND	0.09	0.08	IN	IN	0.006	0.025
TEXARKANA, TX-TEXARKANA, AR	120,132	ND	ND	ND	ND	ND	ND	IN	IN	IN
TOLEDO, OH	614,128	3	0.26	ND	0.13	0.09	23	58	0.004	0.018
TOPEKA, KS	160,976	ND	ND	ND	ND	ND	25	74	ND	ND
TRENTON, NJ	325,824	ND	ND	0.017	0.15	0.11	21	48	ND	ND
TUSCON, AZ	666,880	4	ND	0.019	0.09	0.07	48	207	0.002	0.005
TULSA, OK	708,954	4	ND	0.017	0.12	0.09	22*	65*	0.011	0.083
TUSCALOOSA, AL	150,522	ND	ND	ND	ND	ND	28	61	ND	ND
TYLER, TX	151,309	ND	ND	0.007	0.12	0.10	ND	ND	ND	ND
UTICA-ROME, NY	316,633	ND	ND	ND	0.09	0.08	IN	46	0.001	0.007
VALLEJO-FAIRFIELD-NAPA, CA	451,186	5	ND	0.014	0.12	0.09	20	62	0.002	0.006
VENTURA, CA	669,016	3	0.00	0.022	0.13	0.10	31	63	0.002	0.005

Peak Air Quality Statistics for the Six Principal Pollutants by Metropolitan Statistical Area, 1999 (continued)

Metropolitan Statistical Area	1990 Population	CO 8-hr (ppm)	Pb QMax ($\mu\text{g}/\text{m}^3$)	NO_2 AM (ppm)	O_3 1-hr (ppm)	O_3 8-hr (ppm)	PM_{10} Wtd AM ($\mu\text{g}/\text{m}^3$)	PM_{10} 2nd Max ($\mu\text{g}/\text{m}^3$)	SO_2 AM (ppm)	SO_2 24-hr (ppm)
VICTORIA, TX	74,361	ND	ND	ND	0.10	0.09	ND	ND	ND	ND
VINELAND-MILLVILLE-BRIDGETON, NJ	138,053	ND	ND	ND	0.12	0.10	ND	ND	0.003	0.012
VISALIA-TULARE-PORTERVILLE, CA	311,921	4	ND	0.021	0.13	0.11	55	137	ND	ND
WASHINGTON, DC-MD-VA-WV	4,223,485	6	0.03	0.025	0.13	0.11	24	57	0.009	0.026
WATERBURY, CT	221,629	ND	0.01	ND	ND	ND	20	47	0.005	0.020
WATERLOO-CEDAR FALLS, IA	123,798	ND	ND	ND	ND	ND	IN	IN	ND	ND
WAUSAU, WI	115,400	ND	ND	ND	0.10	0.08	IN	64	0.003	0.040
WEST PALM BEACH-BOCA RATON, FL	863,518	3	0.00	0.013	0.10	0.08	20	33	0.002	0.013
WHEELING, WV-OH	159,301	3	ND	ND	0.10	0.09	26	69	0.015	0.060
WICHITA, KS	485,270	5	ND	ND	0.10	0.08	31	86	ND	ND
WILLIAMSPORT, PA	118,710	ND	ND	ND	0.09	0.08	ND	ND	0.005	0.021
WILMINGTON-NEWARK, DE-MD	513,293	3	ND	0.018	0.15	0.11	24*	49*	0.008	0.049
WILMINGTON, NC	171,269	4	ND	ND	0.08	0.07	IN	45	0.007	0.027
WORCESTER, MA-CT	478,384	3	ND	0.020	0.11	0.09	IN	65	0.004	0.013
YAKIMA, WA	188,823	5	ND	ND	ND	ND	25	82	ND	ND
YOLO, CA	141,092	1	ND	0.012	0.12	0.09	33	144	ND	ND
YORK, PA	339,574	2	ND	0.019	0.12	0.09	ND	ND	0.007	0.019
YOUNGSTOWN-WARREN, OH	600,859	ND	ND	ND	0.11	0.10	26	135	0.008	0.029
YUBA CITY, CA	122,643	4	ND	0.014	0.11	0.08	38	156	ND	ND
YUMA, AZ	106,895	ND	ND	ND	0.09	0.08	ND	ND	ND	ND

CO – Highest second maximum non-overlapping 8-hour concentration (Applicable NAAQS is 9 ppm)

Pb – Highest quarterly maximum concentration (Applicable NAAQS is 1.5 $\mu\text{g}/\text{m}^3$)

NO_2 – Highest arithmetic mean concentration (Applicable NAAQS is 0.053 ppm)

O_3 (1-hr) – Highest second daily maximum 1-hour concentration (Applicable NAAQS is 0.12 ppm)

O_3 (8-hr) – Highest fourth daily maximum 8-hour concentration (Applicable NAAQS is 0.08 ppm)

PM_{10} – Highest weighted annual mean concentration (Applicable NAAQS is 50 $\mu\text{g}/\text{m}^3$)

– Highest second maximum 24-hour concentration (Applicable NAAQS is 150 $\mu\text{g}/\text{m}^3$)

SO_2 – Highest annual mean concentration (Applicable NAAQS is 0.03 ppm)

– Highest second maximum 24-hour concentration (Applicable NAAQS is 0.14 ppm)

ND – Indicates data not available

IN – Indicates insufficient data to calculate summary statistic

Wtd – Weighted

AM – Annual mean

$\mu\text{g}/\text{m}^3$ – Units are micrograms per cubic meter

PPM – Units are parts per million

(*) These PM_{10} statistics were converted from local temperature and pressure to standard temperature and pressure to ensure all PM_{10} data in this table reflect standard conditions.

- (a) Localized impact from an industrial source in East Baton Rouge, LA. Highest population-oriented site in MSA is in Baton Rouge, LA (0.02 $\mu\text{g}/\text{m}^3$).
- (b) Localized impact from an industrial source in Cleveland, OH. Highest population-oriented site in MSA is in Cleveland, OH (0.04 $\mu\text{g}/\text{m}^3$).
- (c) Localized impact from an industrial source in Columbus, GA.
- (d) Localized impact from an industrial source in Columbus, OH.
- (e) Localized impact from an industrial source in Frisco, TX. Highest population-oriented site in MSA is in Dallas, TX (0.00 $\mu\text{g}/\text{m}^3$).
- (f) Localized impact from an industrial source in Indianapolis, IN.
- (g) Localized impact from an industrial source in Memphis, TN. Highest population-oriented site in MSA is in Memphis, TN (0.04 $\mu\text{g}/\text{m}^3$).
- (h) Localized impact from an industrial source in New Brunswick, NJ.
- (i) Localized impact from an industrial source in Eagan, MN. Highest population-oriented site in MSA is in Minneapolis, MN (0.04 $\mu\text{g}/\text{m}^3$).
- (j) Localized impact from an industrial source in Muncie, IN.
- (k) Localized impact from an industrial source in Williamson Co., TN.
- (l) Localized impact from an industrial source in Middletown, NY. Highest population-oriented site in MSA is in Middletown, NY (0.04 $\mu\text{g}/\text{m}^3$).
- (m) Localized impact from an industrial source in Omaha, NE.
- (n) Localized impact from an industrial source in Philadelphia, PA. Highest population-oriented site in MSA is in Camden Co., NJ (0.08 $\mu\text{g}/\text{m}^3$).
- (o) Localized impact from an industrial source in Reading, PA.
- (p) Localized impact from an industrial source in Herculaneum, MO. Highest population-oriented site in MSA is in Wood River, IL (0.11 $\mu\text{g}/\text{m}^3$).
- (q) Localized impact from an industrial source in Seattle, WA. This facility has been shut down.
- (r) Localized impact from an industrial source in Tampa, FL.

Notes: Data from exceptional events are not included. Values above the applicable NAAQS appear in **bold**. The reader is cautioned that this summary is not adequate in itself to numerically rank MSAs according to their air quality. The monitoring data represent the quality of air in the vicinity of the monitoring site but may not necessarily represent urban-wide air quality.